

Serial Number: 10/015,948

ENTERED

CRF Processing Date: 1/7/2002
Edited by: AW
Verified by: AW (STIC stat)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

#2

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/015,948

DATE: 01/07/2002

TIME: 20:37:19

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01072002\J015948.raw

```

4 <110> APPLICANT: Allen, Keith D.
5     Matthews, William
6     Moore, Mark
8 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
9     ADRENOCORTICOTROPIN HORMONE RECEPTOR GENE DISRUPTIONS
12 <130> FILE REFERENCE: R-605
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/015,948
C--> 15 <141> CURRENT FILING DATE: 2001-12-11
17 <150> PRIOR APPLICATION NUMBER: US 60/254,906
18 <151> PRIOR FILING DATE: 2000-12-11
20 <150> PRIOR APPLICATION NUMBER: US 60/324,583
21 <151> PRIOR FILING DATE: 2001-09-24
23 <160> NUMBER OF SEQ ID NOS: 4
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 1100
29 <212> TYPE: DNA
30 <213> ORGANISM: Mus musculus
32 <400> SEQUENCE: 1
33 atttatttat ttaatcatct catatgtgtc tatgtgttct gtttaacctc agatccttcc 60
34 acacaaagaa aacatactgc agaaacaatc gtgatttctg taagtcaacg gcaaacacca 120
35 ccccgctctt aacggccagc aggaaaaaat gaagcatatt atcaattcgt atgaacacac 180
36 caatgacacc gcaagaaata actccgattg tcttgatgta gttttgccag aagagatatt 240
37 ttacacaatc tctgtcattg gcatattgga gaacttgatt gtccctcctg ctgtgatcaa 300
38 aaataaaaaat ctccagtcct ccatgtattt ttcatctgc agtttggtga tttctgacat 360
39 gttgggcagt ctgtataaga tcttggaata catcctgac atgttcagaa acatgggtta 420
40 tcttaagcct cgtggcagtt ttgaaagcac agcagatgac atcattgact gcatgttcat 480
41 cctctctttg ctgggctcta tcttcagcct gtctgtcatt gcagctgacc gttacatcac 540
42 catcttccat gccctgcaat accatagcat tgtgaccatg cgccgcacca tcatcaccct 600
43 aacaattatc tggatgttct gcacaggag cgccatcacc atggtgatct tctccacca 660
44 catccccaca gtgtcacct tcacatcgct gttccctttg atgctggttt ttatcctgtg 720
45 tctctacatc cacatgttct tacttgcccg ctcccatgct aggaagatct ctacccttcc 780
46 tagaaccaac atgaagggtg ccatgacact aaccatcctt cttggagtct tcatcttctg 840
47 ttgggcccc tttgtgctcc atgttctctt aatgaccttc tgcccaaata acccttactg 900
48 tgtttgctac atgtctctct tccaggatcaa tggcatgttg atcatgtgca atgcagttat 960
49 tgaccctttt atatatgcct ttccgagccc agagctcaga gatgcattca aaaggatgct 1020
50 cttctgcaac cgttattagt agaatttttg atccctgctt tgagtgttgt aaagggacca 1080
51 aataacacat cagtctgaca                                     1100
53 <210> SEQ ID NO: 2
54 <211> LENGTH: 296
55 <212> TYPE: PRT
56 <213> ORGANISM: Mus musculus
58 <400> SEQUENCE: 2
59 Met Lys His Ile Ile Asn Ser Tyr Glu His Thr Asn Asp Thr Ala Arg
60 1           5           10           15
61 Asn Asn Ser Asp Cys Pro Asp Val Val Leu Pro Glu Glu Ile Phe Phe
62           20           25           30

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DATE: 01/07/2002
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```

63 Thr Ile Ser Val Ile Gly Ile Leu Glu Asn Leu Ile Val Leu Leu Ala
64      35      40      45
65 Val Ile Lys Asn Lys Asn Leu Gln Ser Pro Met Tyr Phe Phe Ile Cys
66      50      55      60
67 Ser Leu Ala Ile Ser Asp Met Leu Gly Ser Leu Tyr Lys Ile Leu Glu
68 65      70      75      80
69 Asn Ile Leu Ile Met Phe Arg Asn Met Gly Tyr Leu Lys Pro Arg Gly
70      85      90      95
71 Ser Phe Glu Ser Thr Ala Asp Asp Ile Ile Asp Cys Met Phe Ile Leu
72      100     105     110
73 Ser Leu Leu Gly Ser Ile Phe Ser Leu Ser Val Ile Ala Ala Asp Arg
74      115     120     125
75 Tyr Ile Thr Ile Phe His Ala Leu Gln Tyr His Ser Ile Val Thr Met
76      130     135     140
77 Arg Arg Thr Ile Ile Thr Leu Thr Ile Ile Trp Met Phe Cys Thr Gly
78 145     150     155     160
79 Ser Gly Ile Thr Met Val Ile Phe Ser His His Ile Pro Thr Val Leu
80      165     170     175
81 Thr Phe Thr Ser Leu Phe Pro Leu Met Leu Val Phe Ile Leu Cys Leu
82      180     185     190
83 Tyr Ile His Met Phe Leu Leu Ala Arg Ser His Ala Arg Lys Ile Ser
84      195     200     205
85 Thr Leu Pro Arg Thr Asn Met Lys Gly Ala Met Thr Leu Thr Ile Leu
86      210     215     220
87 Leu Gly Val Phe Ile Phe Cys Trp Ala Pro Phe Val Leu His Val Leu
88 225     230     235     240
89 Leu Met Thr Phe Cys Pro Asn Asn Pro Tyr Cys Val Cys Tyr Met Ser
90      245     250     255
91 Leu Phe Gln Val Asn Gly Met Leu Ile Met Cys Asn Ala Val Ile Asp
92      260     265     270
93 Pro Phe Ile Tyr Ala Phe Arg Ser Pro Glu Leu Arg Asp Ala Phe Lys
94      275     280     285
95 Arg Met Leu Phe Cys Asn Arg Tyr
96      290     295
99 <210> SEQ ID NO: 3
100 <211> LENGTH: 200
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Targeting Vector
107 <400> SEQUENCE: 3
108 atgaacacac caatgacacc gcaagaaata actccgattg tcttgatgta gttttgccag 60
109 aagagatatt ttccacaatc tctgtcattg gcatattgga gaacttgatt gtcctcctgg 120
110 ctgtgatcaa aaataaaaat ctccagtccc ccatgtattt ttcatctgc agtttgcca 180
111 tttctgacat gttgggcagt
113 <210> SEQ ID NO: 4
114 <211> LENGTH: 200
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/015,948

DATE: 01/07/2002
TIME: 20:37:19

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01072002\J015948.raw

118 <220> FEATURE:
119 <223> OTHER INFORMATION: Targeting Vector
121 <400> SEQUENCE: 4
122 ggtgccatga cactaaccat ccttcttgga gtcttcatct tctgttgggc cccctttgtg 60
123 ctccatgttc tcttaatgac tttctgcca aataaccctt actgtgtttg ctacatgtct 120
124 ctcttccagg tcaatggcat gttgatcatg tgcaatgcag ttattgaccc ctttatatat 180
125 gcctttcgga gccagagct 200

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/015,948

DATE: 01/07/2002

TIME: 20:37:20

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01072002\J015948.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

OIKE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/015,948

DATE: 12/31/2001
 TIME: 14:13:25

Input Set : A:\R-605 Sequence listing for submission.txt
 Output Set: N:\CRF3\12312001\J015948.raw

**Does Not Comply
 Corrected Diskette Needed**

4 <110> APPLICANT: Allen, Keith D.
 5 Matthews, William
 6 Moore, Mark
 8 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
 9 ADRENOCORTICOTROPIN HORMONE RECEPTOR GENE DISRUPTIONS
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 21 <151> PRIOR FILING DATE: 2001-09-24
 23 <160> NUMBER OF SEQ ID NOS: 4
 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

113 <210> SEQ ID NO: 4
 114 <211> LENGTH: 200
 115 <212> TYPE: DNA
 116 <213> ORGANISM: Artificial Sequence
 118 <220> FEATURE:
 119 <223> OTHER INFORMATION: Targeting Vector
 121 <400> SEQUENCE: 4
 122 ggtgccatga cactaaccat ccttcttgga gtcttcatct tctgttgggc cccctttgtg 60
 123 ctccatgttc tcttaatgac tttctgcca aataaccctt actgtgtttg ctacatgtct 120
 124 ctcttcagg tcaatggcat gttgatcatg tgcaatgcag ttattgaccc ctttatatat 180
 125 ggccttcgga gccagagct 200
 E--> 126 (1)

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/015,948

DATE: 12/31/2001

TIME: 14:13:26

Input Set : A:\R-605 Sequence listing for submission.txt
Output Set: N:\CRF3\12312001\J015948.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:126 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:200 SEQ:4